

Title (en)
IMPROVED NITRIC ACID PRODUCTION

Title (de)
VERBESSERTE SALPETERSÄUREHERSTELLUNG

Title (fr)
PRODUCTION AMÉLIORÉE D'ACIDE NITRIQUE

Publication
EP 2747877 A4 20160113 (EN)

Application
EP 12825677 A 20120821

Priority
• US 201161525899 P 20110822
• US 201213590424 A 20120821
• US 2012051684 W 20120821

Abstract (en)
[origin: WO2013028668A2] A method for reducing the levels of nitrogen oxides in the tail gas from a nitric acid production process by adding ozone to the absorber column of the production process. Nitric acid formation is also intensified by adding a mixture of secondary air and oxygen to the absorber column.

IPC 8 full level
B01D 53/56 (2006.01)

CPC (source: EP RU US)
B01D 53/56 (2013.01 - EP RU US); **B01D 53/78** (2013.01 - EP US); **C01B 21/40** (2013.01 - EP US); **B01D 2251/104** (2013.01 - EP US); **Y02P 20/129** (2015.11 - EP US)

Citation (search report)
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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WO 2013028668 A2 20130228; WO 2013028668 A3 20140508; AU 2012298981 A1 20140306; BR 112014004042 A2 20170307; CA 2845760 A1 20130228; CN 103987443 A 20140813; CN 103987443 B 20161109; CO 6910182 A2 20140331; EP 2747877 A2 20140702; EP 2747877 A4 20160113; IL 231004 A0 20140331; IN 2073CHN2014 A 20150529; KR 20140064883 A 20140528; NZ 621235 A 20151030; RU 2014111050 A 20150927; RU 2602148 C2 20161110; SG 11201400105P A 20140328; US 2013216461 A1 20130822; ZA 201401948 B 20150429

DOCDB simple family (application)
US 2012051684 W 20120821; AU 2012298981 A 20120821; BR 112014004042 A 20120821; CA 2845760 A 20120821; CN 201280049665 A 20120821; CO 14060689 A 20140320; EP 12825677 A 20120821; IL 23100414 A 20140217; IN 2073CHN2014 A 20140318; KR 20147007223 A 20120821; NZ 62123512 A 20120821; RU 2014111050 A 20120821; SG 11201400105P A 20120821; US 201213590424 A 20120821; ZA 201401948 A 20140317